

Table S1. DPPH and total phenolic compounds of ten traditional Calabrian sourdoughs and dough produced with baker's yeast.

Doughs	DPPH ^a	Total phenols ^b
PF1	20.38±0.12 ^e	173.41±0.16 ^e
PF2	19.27±0.14 ^f	97.64±0.05 ⁱ
PF3	14.54±0.18 ^h	178.87±0.12 ^d
PF4	21.17±0.19 ^d	183.66±0.11 ^b
PF5	22.27±0.23 ^c	95.83±0.06 ^l
PF6	29.60±0.17 ^b	108.38±0.09 ^h
PF7	21.62±0.12 ^d	110.35±0.22 ^g
PF8	20.44±0.26 ^e	179.35±0.32 ^c
PF9	14.14±0.19 ^h	148.92±0.05 ^f
PF10	35.82±0.25 ^a	195.62±0.04 ^a
PFC	17.77±0.23 ^g	71.61±0.10 ^m
Statistical significance	***	***

^a% of inhibition

^bmg of gallic acid/100 g of dough

Means values in a vertical column with different letters were significantly different according to the Tukey's test (***, p≤0.001).

Table S2. Rheological attributes (a) Stickiness and Hardness and (b) Firmness, Adhesiveness, extensibility of ten traditional Calabrian sourdoughs and dough produced with baker's yeast.

Dough	Stickiness test			Penetration test
	Stickiness (g)	Work of Adhesion (g.sec)	Dough strength/ Cohesiveness (mm)	Hardness (g)
PF1	221.16±53.49 ^{ab}	8.82±1.62 ^{ab}	1.26±0.20 ^b	22.32±3.58 ^d
PF2	142.25±11.37 ^{bc}	16.36±1.09 ^a	4.50±0.11 ^a	67.39±13.26 ^{cd}
PF3	48.38±15.67 ^{cd}	4.74±2.24 ^b	2.01±0.87 ^{ab}	103.18±16.46 ^{bd}
PF4	261.76±32.18 ^a	15.04±2.75 ^a	3.76±0.31 ^{ab}	17.59±5.63 ^d
PF5	43.07±7.80 ^d	2.28±0.71 ^b	1.04±0.23 ^b	177.56±24.86 ^{abc}
PF6	71.95±7.41 ^{cd}	9.35±1.14 ^{ab}	3.58±0.45 ^{ab}	85.58±10.14 ^{bd}
PF7	47.41±6.27 ^{cd}	2.68±0.87 ^b	1.02±0.27 ^b	217.74±29.65 ^{ab}
PF8	40.91±7.12 ^d	2.12±0.87 ^b	0.95±0.36 ^b	281.76±75.14 ^a
PF9	41.69±9.98 ^d	2.69±1.22 ^b	1.21±0.47 ^b	197.36±27.43 ^{abc}
PF10	79.19±8.41 ^{cd}	10.14±4.35 ^{ab}	3.79±1.54 ^{ab}	119.26±13.95 ^{bd}
PFC	78.89±16.16 ^{cd}	10.24±1.98 ^{ab}	3.71±0.57 ^{ab}	33.66±3.53 ^d

(a)

Dough	Warburtons test			Kieffer test	
	Firmness (kg)	Work of Compression (kg.sec)	Adhesiveness peak (kg)	Resistance to extensibility (g)	Extensibility (mm)
PF1	0.28±0.08 ^c	1.45±0.64 ^c	- 0.25±0.02 ^a	nd*	nd*
PF2	nd*	nd*	nd*	24.03±6.57 ^{ab}	- 15.26±2.84 ^{cd}
PF3	0.72±0.20 ^c	4.85±1.57 ^c	- 1.49±0.28 ^a	12.96±1.10 ^b	11.00±4.13 ^{ab}
PF4	nd*	nd*	nd*	nd*	nd*
PF5	2.93±0.42 ^{ac}	17.92±3.05 ^{ac}	- 1.59±0.70 ^a	43.68±2.56 ^a	- 16.34±2.08 ^d
PF6	nd*	nd*	nd*	30.25±6.43 ^{ab}	15.08±2.96 ^{ab}
PF7	8.62±2.42 ^a	52.09±16.31 ^a	- 1.99±0.79 ^a	32.85±7.43 ^{ab}	12.56±1.50 ^{ab}
PF8	7.04±1.78 ^{ac}	41.44±5.83 ^{ac}	- 1.38±0.19 ^a	32.54±8.07 ^{ab}	11.54±1.12 ^{ab}
PF9	7.66±2.91 ^{ab}	47.82±17.19 ^{ab}	- 1.7±0.48 ^a	44.84±6.58 ^a	16.76±4.23 ^a
PF10	1.28±0.31 ^{bc}	7.98±1.82 ^{bc}	- 1.43±0.26 ^a	12.93±4.73 ^b	- 0.02±0.00 ^{bc}
PFC	0.65±0.43 ^c	2.70±1.02 ^c	- 0.28±0.06 ^a	13.91±2.67 ^b	- 12.20±7.53 ^{cd}

*nd: not determined

(b)